

## AMENDMENTS TO THE CLAIMS

Please amend claims 1 and 16 as follows.

1. (Currently Amended) A method ~~of handling for lock contention management~~, the method comprising the steps of:
  - a first requester transmitting to a lock management system a first request for a particular lock on a resource;
  - wherein said lock management system manages locks on resources that ~~may be~~are granted to a plurality of processes ~~that can~~to access said resource;
  - determining said first request cannot be honored because of a blocking condition;
  - in response to determining said first request cannot be honored:
    - creating first data that indicates the blocking condition; and
    - after creating said first data:
      - storing in a store, as a new item of data in the store, said first data, and
      - ~~receiving a message~~transmitting from said lock management system a message that indicates that said first request to lock a resource is denied;
  - ~~wherein a blocking condition caused the denial of said first request;~~requester receiving said message from said lock management system;
  - wherein said message includes said first data; and
  - based on said first data, said first requester transmitting a second request for notification that indicates when said blocking condition should no longer cause denial of a request for a lock on said resource.

- 1     2.     (Original) The method of claim 1, wherein no process of said plurality of processes  
2           holds a lock issued by said lock management system for said resource.
- 1     3.     (Original) The method of claim 1, wherein the steps further include:  
2           said first requester receiving said notification; and  
3           in response to receiving said notification, said first requester transmitting another  
4           request to said lock management system for said particular lock on said resource.
- 1     4.     (Original) The method of claim 3, wherein the step of said first requester transmitting  
2           another request includes transmitting second data that indicates that said blocking  
3           condition should no longer cause denial of a request for said lock of said resource.
- 1     5.     (Original) The method of claim 4, wherein the steps further include said lock  
2           management system processing said other request without denial based on said  
3           second data.
- 1     6.     (Original) The method of claim 1, wherein:  
2           a second process of said plurality of processes is performing an operation that causes  
3           said blocking condition;  
4           said first data identifies another resource locked by said second process for which  
5           said first requester may acquire a lock when said blocking condition should no  
6           longer cause denial of a request for said lock of said resource; and  
7           wherein the step of transmitting said second request includes transmitting a request  
8           for said lock on said other resource.
- 1     7.     (Original) The method of claim 1, wherein:  
2           said first requester is a process of said plurality of processes;  
3           wherein said resource is a data block in a b-tree index; and

wherein a second process of said plurality of processes is performing a block split operation on said data block.

8 - 15. (Withdrawn)

16. (Currently Amended) A computer-readable medium carrying one or more sequences of instructions for ~~handling lock contention~~management, wherein execution of the one or more sequences of instructions by one or more processors causes the one or more processors to perform the steps of:

a first requester transmitting to a lock management system a first request for a particular lock on a resource;

wherein said lock management system manages locks on resources that ~~may be~~are

granted to a plurality of processes that ~~can~~to access said resource;

determining said first request cannot be honored because of a blocking condition;

in response to determining said first request cannot be honored:

creating first data that indicates the blocking condition; and

after creating said first data:

storing in a store, as a new item of data in the store, said first data, and

receiving a message~~transmitting~~ from said lock management system a

message that indicates that said first request to lock a resource

is denied;

~~wherein a blocking condition caused the denial of~~  
~~said first request;~~requester receiving said message from said lock management

system;

wherein said message includes said first data; and

21 based on said first data, said first requester transmitting a second request for  
22 notification that indicates when said blocking condition should no longer  
23 cause denial of a request for a lock on said resource.  
24

1 17. (Original) The computer-readable medium of claim 16, wherein no process of said  
2 plurality of processes holds a lock issued by said lock management system for said  
3 resource.

1 18. (Original) The computer-readable medium of claim 16, wherein the steps further  
2 include:  
3 said first requester receiving said notification; and  
4 in response to receiving said notification, said first requester transmitting another  
5 request to said lock management system for said particular lock on said resource.

1 19. (Original) The computer-readable medium of claim 18, wherein the step of said first  
2 requester transmitting another request includes transmitting second data that indicates  
3 that said blocking condition should no longer cause denial of a request for said lock  
4 of said resource.

1 20. (Original) The computer-readable medium of claim 19, wherein the steps further  
2 include said lock management system processing said other request without denial  
3 based on said second data.

1 21. (Original) The computer-readable medium of claim 16, wherein:  
2 a second process of said plurality of processes is performing an operation that causes  
3 said blocking condition;

4        said first data identifies another resource locked by said second process for which  
5                said first requester may acquire a lock when said blocking condition should no  
6                longer cause denial of a request for said lock of said resource; and  
7        wherein the step of transmitting said second request includes transmitting a request  
8                for said lock on said other resource.

1    22.    (Original) The computer-readable medium of claim 16, wherein:

2        said first requester is a process of said plurality of processes;  
3        wherein said resource is a data block in a b-tree index; and  
4        wherein a second process of said plurality of processes is performing a block split  
5                operation on said data block.

1    23 – 30.    (Withdrawn)